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The FLATRON LCD 680LE Flat Panel Monitor has an active matrix TFT (Thin-Film Transistor) LCD (Liquid Crystal Display).
This monitor is designed for use in small working areas or for those who need more working space on the desk.

Features

- The FLATRON LCD 680LE is a 15.7-inch (15.7 inches viewable) intelligent microprocessor based monitor.
- Digitally controlled auto-scanning is done with the micro-processor for horizontal scan frequencies between 30 and 80kHz, and vertical scan frequencies between 56 - 85Hz.
- The microprocessor-based digital controls allow you to adjust conveniently a variety of image controls by using the OSD (On Screen Display).
- It supports resolutions up to 1280x1024, and has a wide viewing angle of ±60 degrees horizontal and ±45 degrees vertical.
- The monitor is shipped with 16 factory pre-programmed video modes that are permanently resident. In addition, there are 10 user-storable modes, for a total of 26 memory modes.
- Plug and play capability if supported by your system.
- This monitor has DDC 2B function.*
- Compliant with the following regulated specifications :*
  - EPA ENERGY STAR
  - Swedish TCO'99

**For detailed information, please refer to the Reference Guide provided .*

Connecting the Monitor

To set up the monitor, ensure that the power is turned off to the monitor, computer system, and other attached devices. Connect the cables to monitor with it lying on a cushion or a cloth.
Follow these steps:

❶ Power off both the monitor and computer.

❷ Connect one end of the monitor signal cable to the input connector on the rear panel of the monitor.

❸ Connect the other end to the 15-pin connector on the real panel of the computer and tighter the screws. Be sure the signal cable aligns with the 15-pin connector.

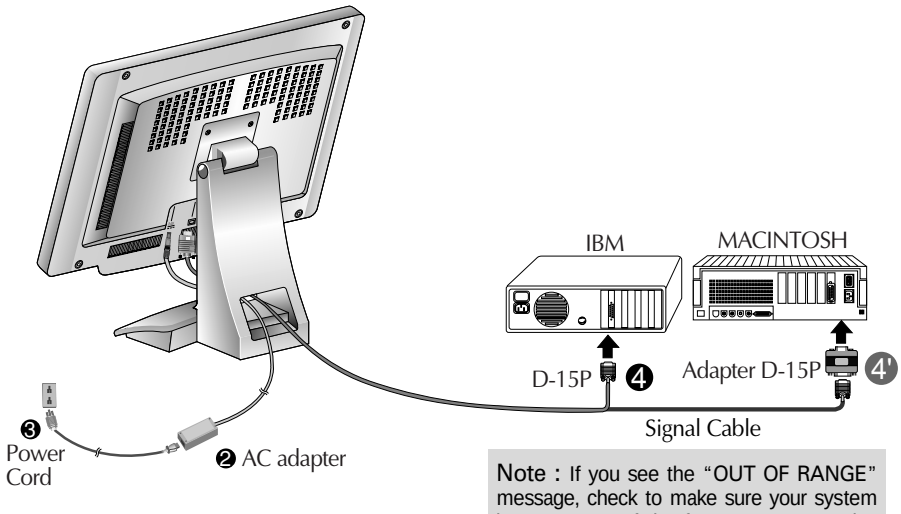
❹ Connect the other end of the monitor signal cable to the rear panel of Macintosh computer through a Macintosh adapter and then tighten screws.

❹' Connect the plug from the AC adapter into the base of the monitor ❶.
Connect one end of the AC power cord to the AC adapter ❷ and the other end to a properly grounded AC outlet that is easily accessible and close to the monitor ❸.

❺ Power on the computer, then the monitor.

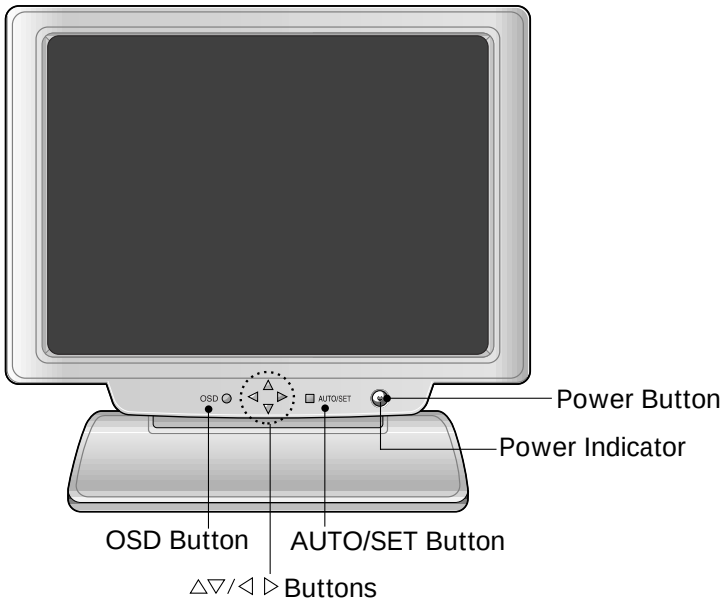
❻ If you see the NO SIGNAL message, check the signal cable and connectors.

❼ After using the system, power OFF the monitor, then the computer.

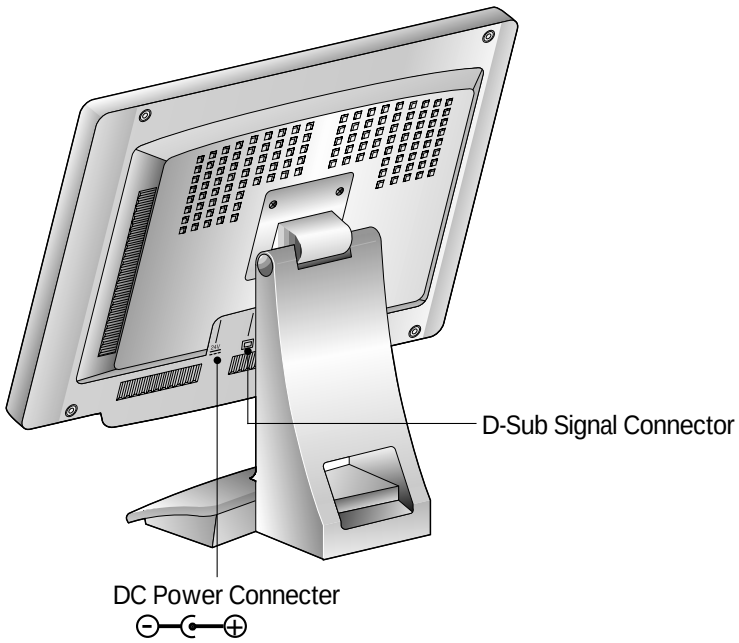


Note : If you see the "OUT OF RANGE" message, check to make sure your system is set to one of the factory preset modes (see page A8), or is set to a resolution and refresh rate within the specification limits of this monitor.

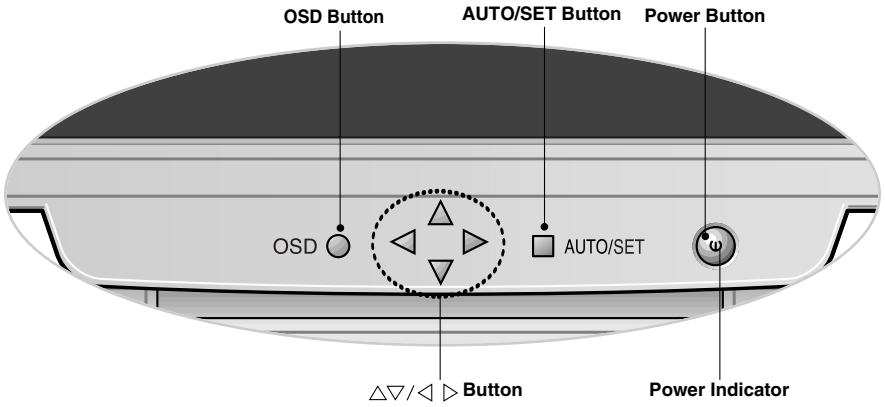
Front View

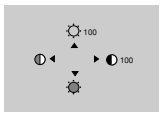


Rear View



Front Panel Controls



Control	Function
OSD **OSD Button**	Use this button to enter or exit the on screen display.
△▽/◁ ▷ **Button** 	Use these buttons to choose or adjust items in the on screen display. **<Shortcut Keys>** • Brightness and Contrast can be adjusted directly without entering the On Screen Display (OSD) system. Touch the △▽/◁ ▷ buttons to adjust the settings and then the **OSD button** to save all changes. The Brightness and Contrast functions are also available in the On Screen Display (OSD) menu.
AUTO/SET **AUTO/SET Button**	Use this button to enter a selection in the on screen display. *** AUTO adjustment function** Touch the **AUTO/SET** button before using OSD menu. This button is for the automatic adjustment of the screen position, clock and phase. **Note**: Some signal from some graphics boards may not function properly. **If the results are unsatisfactory**, adjust your monitor's Position, Clock and Phase manually.
Power Button	Use this button to turn the monitor on or off.
Power Indicator	The power indicator light is shown in the power button. This indicator lights up green when the monitor operates normally. If the monitor is in DPM (Energy Saving) mode (stand-by/ suspend/power off), this indicator color changes to amber.

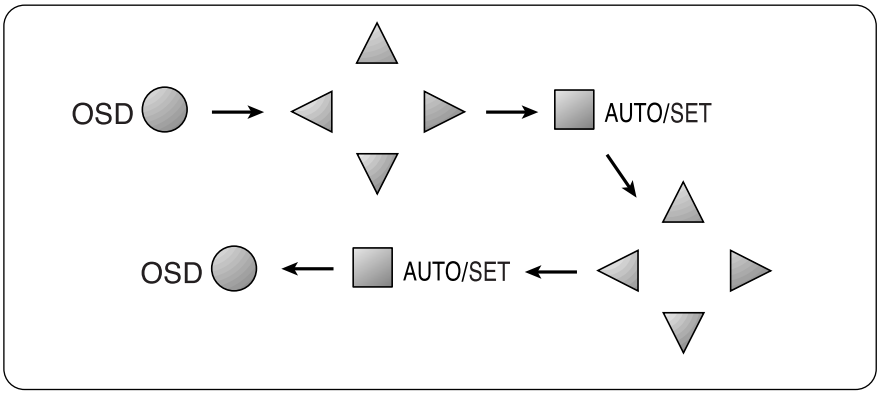
On Screen Display (OSD) Control Adjustment

Making adjustments to the image size, position and operating parameters of the monitor are quick and easy with the On Screen Display Control system. A quick example is given below to familiarize you with the use of the controls. Following section is an outline of the available adjustments and selections you can make using the OSD.

NOTE

- Allow the monitor to stabilize for at least 30 minutes before making image adjustment.

To make adjustments in the On Screen Display, follow these steps:

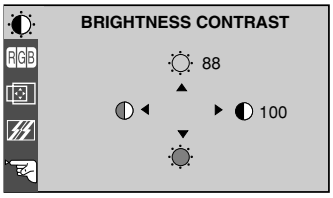
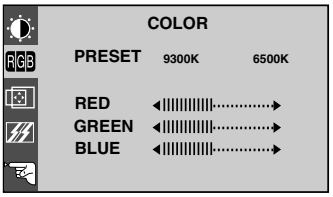
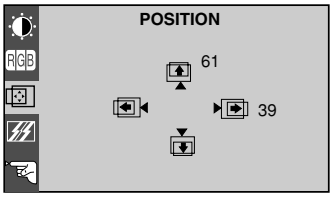


1. Press the OSD Button, then the main menu of the OSD appears.
2. To acces a control, use the △ or ▽ Buttons. When the icon you want becomes highlighted, press the AUTO/SET Button.
3. Use the △▽/◁ ▷ Buttons to adjust the item to the desired level.
4. Accept the changes by pressing the AUTO/SET Button.
5. Exit the OSD by Pressing the OSD Button.

On Screen Display(OSD) Selection and Adjustment

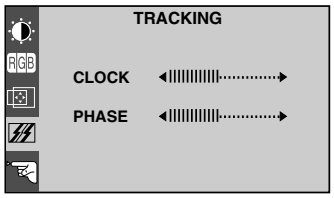
You were introduced to the procedure of selection and adjusting an item using the OSD system.

Listed below are the icons, icon names, and icon descriptions of the items that are shown on the Menu.

OSD Adjust	Description
	**Brightness** Used to adjust the brightness of the screen. **Contrast** Adjust the display to the contrast desired.
	**PRESET** **9300K/ 6500K** To appear the displays color temperature. • 9300K:Slightly bluish white. • 6500K:Slightly reddish white. **RED** To set your own color levels. **GREEN** To set your own color levels. **BLUE** To set your own color levels.
	**Vertical Position** To move image up and down. **Horizontal Position** To move picture image left and right.

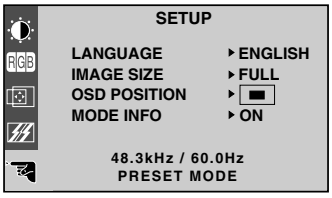
On Screen Display(OSD) Selection and Adjustment

OSD Adjust	Description



CLOCK To minimize any vertical bars or stripes visible on the screen background.The horizontal screen size will also change.

PHASE To adjust the focus of the display. This item allows you to remove any horizontal noise and clear or sharpen the image of characters.



LANGUAGE To choose the language in which the control names are displayed.

IMAGE SIZE This function displays the image in its original size or enlarged size so as to fit in the full screen of the LCD panel.

OSD POSITION To adjust position of the OSD window on the screen.

MODE INFO This function displays the current mode information on the screen when power on the monitor.

The monitor has 26 memory locations for display modes, 16 of which are factory preset to popular video modes.

Display Modes (Resolution)

	Display Modes (Resolution)		Horizontal Freq.(kHz)	Vertical Freq.(Hz)
1	VGA	640 x 350	31.47	70
2	VGA	720 x 400	31.47	70
3	VGA	640 x 480	31.47	60
4	VESA	640 x 480	37.50	75
5	VESA	640 x 480	43.27	85
6	VESA	800 x 600	37.88	60
7	VESA	800 x 600	46.88	75
8	VESA	800 x 600	53.67	85
9	MAC	832 x 624	49.73	75
10	VESA	1024 x 768	48.36	60
11	VESA	1024 x 768	60.12	75
12	VESA	1024 x 768	68.67	85
13	VESA	1152x870	68.68	75
14	VESA	1152x900	61.80	66
15	VESA	1280x1024	63.98	60
16	VESA	1280x1024	79.98	75

Note : This LCD monitor has been pre-adjusted to the video mode of VESA 1280x1024 @60Hz.

User Modes

- Modes 17-26 are empty and can accept new video data. If the monitor detects a new video mode that has not been present before or is not one of the preset modes, it stores the new mode automatically in one of the empty modes starting with mode 17.

  If you use up the 10 blank modes and still have more new video modes, the monitor replaces the information in the user modes starting with mode 17.

Troubleshooting

Check the following before calling for service.

Display Position is incorrect.
- Push the AUTO/SET Button.
- If the results are unsatisfactory, adjust the image position using the H position and V position icon in the on screen display.

On the screen background, vertical bars or stripes are visible.
- Push the AUTO/SET Button.
- If the results are unsatisfactory, decrease the vertical bars or stripes using the CLOCK icon in the on screen display.

Any horizontal noise appearing in any image or characters are not clearly portraid.
- Push the AUTO/SET Button.
- If the results are unsatisfactory, decrease the horizontal bars using the PHASE icon in the on screen display.

NO SIGNAL message.
- The signal cable is not connected, or is loose. Check and secure the connection.

OUT OF RANGE message appears.
Picture is blank.
- The frequency of the signal from the video card is outside the operating range of the monitor.

  Horizontal Frequency: 30kHz-80kHz
  Vertical Frequency: 56Hz-85Hz

  *Use the graphics board's utility software to change the frequency setting (Refer to the manual for graphics board).

  *You can change the setup to the supported resolution using the Safe Mode (Press the F8 key during booting the system).

The power LED is illuminated amber.
- The monitor is in its display power management mode.
- There is no active signal coming from the PC.
- The signal cable is not fastened securely.
- Check the computer power and graphics adapter configuration.

The monitor doesn't enter the power saving off mode (Amber).
- Computer video signal is not VESA DPMS standard. Either the PC or the video controller card is not using the VESA DPMS power management function.

NOTE
- If the power indicator(LED) light is blinking amber, may result in abnomal condition of the monitor.
- Then press a power ON/OFF button on the front panel control and call your service technician for more information.

Specifications

Display	Type	15.7inch (39.83cm) Flat Panel Active matrix-TFT LCD
		Anti-Glare coating
	Viewable Size	15.7inch (39.83cm)
	Pixel pitch	0.243 x 0.243mm
	True color	16.7 million color
Sync Input	Horizontal Freq.	30kHz - 80kHz (Automatic)
	Vertical Freq.	56Hz - 85Hz (Automatic)
	Input form	Separate, TTL, Positive/Negative
	Signal input	15 pin D-Sub connector
Video Input	Display Area	311 x 248.8 mm / 12.2 x 9.79 inch
	Input Form	Separate, RGB Analog, 0.714Vp-p/75ohm, Positive
	Resolution (max.)	VESA 1280 x 1024 @ 75Hz
Power Consumption	Normal	≤ 36W
	Stand-by/Suspend	≤ 3W
	Power Off	≤ 3W
Dimensions	Width	37.0 cm / 14.57 inches
	Height	38.77 cm / 15.26 inches
	Depth	13.4 cm / 5.28 inches
Power Input	DC 24V 1.2A	
AC Adapter	Input	AC 100-240V, 50 - 60Hz, 1.2A - 0.6A
	Output	DC 24V ⎓ 1.5A ⊖—◖—⊕
Weight	Net	4.5 kg (9.92 lbs)
Tilt Range	Down	-5˚
	Up	35˚
Environment Conditions	Operating condition	
	Temperature	10˚C to 35˚C
	Humidity	10% to 80% non-condensing
	Storage condition	
	Temperature	-20˚C to 60˚C
	Humidity	5% to 95% non-condensing

NOTE

- Information in this document is subject to change without notice.